

**HEADLAMP ASSEMBLIES AND OPTICAL
BODIES FOR USE THEREWITH**

Abstract of the Disclosure

Headlamp assemblies utilize a solid optical body made of glass or another heat resistant, light transmissive material. The solid optical body has an axially positioned cavity therethrough which receives a bulb that injects light through a cylindrical wall of the cavity into the optical body. In order to reflect light from the bulb, the optical body has a rear surface which is coated with a reflecting material, such as aluminize or a dichroic material. In accordance with one embodiment of the invention in which a plastic lens is used, the optical body is made of glass with a dichroic coating configured so that the infrared component of light from the bulb is transmitted through the dichroic coating and emitted through the rear of the optical body. This reduces transmission of heat from the bulb to the plastic lens so that the lens can be positioned closer to the optical body, which decreases the fore/aft extent of the headlamp assemblies. In another embodiment of the invention the dichroic coating is tuned not to reflect yellow wavelength light.